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Connection Cables - Data

Industrial Ethernet Shielded M12 D-coded Cables

Features

- High flex industrial Ethernet shielded Cat5e cables
- Resistant to welding sparks
- Flame retardant, chemical resistant
- TPE (thermoplastic elastomer) wire insulation for applications requiring high flexibility
- HDPE (High Density Polyethylene) wire insulation for excellent insulation properties and abrasion resistance



7700-44511 series



7700-44541 series



7700-44711 series



7700-44851 series

Ethernet Shielded M12 D-coded Cables							
Part Number	Price	Number of Wires	Connectors	Cable Jacket/ Wire Insulation Material	Jacket Color	Length m [ft]	Drawing Link
7700-44511-S4U0060	\$27.50	4	Axial male to axial male	Thermoplastic Elastomer (TPE) / High Density Polyethylene (HDPE)	Teal	0.6 [1.9]	PDF
7700-44511-S4U0100	\$28.50					1.0 [3.2]	PDF
7700-44511-S4U0300	\$35.50					3.0 [9.8]	PDF
7700-44511-S4U0500	\$36.50					5.0 [16.4]	PDF
7700-44511-S4U0750	\$44.50					7.5 [24.6]	PDF
7700-44511-S4U1000	\$53.00					10 [32.8]	PDF
7700-44511-S4U1500	\$71.00		15 [49.2]			PDF	
7700-44541-S4U0060	\$27.50		Axial male to 90-degree male			0.6 [1.9]	PDF
7700-44541-S4U0100	\$28.50					1.0 [3.2]	PDF
7700-44541-S4U0300	\$37.50					3.0 [9.8]	PDF
7700-44541-S4U0500	\$39.00					5.0 [16.4]	PDF
7700-44541-S4U0750	\$46.50					7.5 [24.6]	PDF
7700-44541-S4U1000	\$56.00					10 [32.8]	PDF
7700-44541-S4U1500	\$76.00		15 [49.2]			PDF	
7700-44711-S4U0060	\$26.50		Axial male to axial male RJ45			0.6 [1.9]	PDF
7700-44711-S4U0100	\$27.50					1.0 [3.2]	PDF
7700-44711-S4U0300	\$32.50					3.0 [9.8]	PDF
7700-44711-S4U0500	\$36.50					5.0 [16.4]	PDF
7700-44711-S4U0750	\$46.50					7.5 [24.6]	PDF
7700-44711-S4U1000	\$55.00					10 [32.8]	PDF
7700-44711-S4U1500	\$76.00	15 [49.2]	PDF				
7700-44761-S4U0060	\$26.50	90-degree male to axial male RJ45	0.6 [1.9]	PDF			
7700-44761-S4U0100	\$28.00		1.0 [3.2]	PDF			
7700-44761-S4U0300	\$33.50		3.0 [9.8]	PDF			
7700-44761-S4U0500	\$38.00		5.0 [16.4]	PDF			
7700-44761-S4U0750	\$46.50		7.5 [24.6]	PDF			
7700-44761-S4U1000	\$53.00		10 [32.8]	PDF			
7700-44761-S4U1500	\$71.00	15 [49.2]	PDF				
7700-44851-S4U0050	\$26.50	Female bulkhead to axial male RJ45	0.5 [1.6]	PDF			
7700-44851-S4U0060	\$28.00		0.6 [1.9]	PDF			
7700-44851-S4U0100	\$28.00		1.0 [3.2]	PDF			



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Connection Cables - Data

Industrial Ethernet M12 D-coded Shielded Cables

Ethernet Shielded M12 D-coded Specifications					
Model	44511	44541	44711	44761	44851
Type	(M12) 4-Wire, 5-Pole; (RJ45) 4-Wire, 8-Pin				
Max Voltage	60VDC				
Max Voltage - UL Rating	60VDC		30VDC		
Max Current Per Contact	4A (UL Rated to 1.5 A)	4A	1.5 A		
Protection Degree	IP65 / IP66K / IP67		M12 IP67 RJ45 IP20		M12 IP67, Nema 3, 4, 6P (UL50E), RJ45 IP20
Nut Material	Nickel plated die cast zinc				
Cable Jacket/Wire Insulation Material	Thermoplastic Elastomer (TPE) / High Density Polyethylene (HDPE)				
Contacts Material	Copper Alloy				
Tightening Torque	≤ 0.6 N·m [≤ 0.44 ft·lb]				
Conductors Cross Section	24/7 AWG				
Ø Outer Cable	6.6 mm [0.26 in]				
Min Bend Radius	Stationary use: 5 x cable diameter; Flexible use: 10 x cable diameter				
Cable Temperature Range	-40 to 80°C [-40 to 176°F]				
Channel Transmission Length	max 70m				
Data Transmission Standard	CAT5e ISO/IEC 11801 (Class D - 100 MBit/s)				
Approvals*	cULus				

*To obtain the most current agency approval information, see the Agency Compliance & Certifications Checklist section on the specific part number's web page.

Connection Cables - Data

Industrial Ethernet Shielded RJ45 Cables

Features

- High flex industrial Ethernet shielded Cat5e cables
- Resistant to welding sparks
- Flame retardant, chemical resistant
- TPE (thermoplastic elastomer) jacket for typical industrial applications
- HDPE (High Density Polyethylene) wire insulation for excellent insulation properties and abrasion resistance.



7700-74301 series

Industrial Ethernet Shielded RJ45 Cables							
Part Number	Price	Number of Wires	Connectors	Cable Jacket/ Wire Insulation Material	Jacket Color	Length	Drawing Link
						m [ft]	
7700-74301-S4U0060	\$19.00	4	RJ45 axial male to RJ45 axial male	Thermoplastic Elastomer (TPE) / High Density Polyethylene (HDPE)	Teal	0.6 [1.9]	PDF
7700-74301-S4U0100	\$20.00					1.0 [3.2]	PDF
7700-74301-S4U0300	\$25.00					3.0 [9.8]	PDF
7700-74301-S4U0500	\$32.00					5.0 [16.4]	PDF
7700-74301-S4U0750	\$40.50					7.5 [24.6]	PDF
7700-74301-S4U1000	\$49.50					10 [32.8]	PDF
7700-74301-S4U1500	\$70.00					15 [49.2]	PDF

Industrial Ethernet Shielded RJ45 Cables Specifications	
Model	74301
Type	4-Wire ,8-Pin
Max Voltage	60VDC
Max Voltage UL Rating	30VDC
Max Current Per Contact	1.5 A
Protection Degree	IP20
Cable Jacket/Wire Insulation Material	Thermoplastic Elastomer (TPE) / High Density Polyethylene (HDPE)
Contacts Material	Copper Alloy
Conductor Cross Section	24/7 AWG
Ø Outer Cable	6.6 mm [0.260 in]
Min Bend Radius	Stationary use: 5 x cable diameter; Flexible use: 10 x cable diameter
Cable Temperature Range	-40 to 80°C [-40 to 176°F]
Channel Transmission Length	max 70m
Data Transmission Standard	Cat5e (ISO/IEC 11801 (Class D - 100 MBit/s))
Approvals**	cULus

*To obtain the most current agency approval information, see the Agency Compliance & Certifications Checklist section on the specific part number's web page.



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Connection Cables - Data

Industrial Ethernet Shielded M12 D-coded to Pigtail Cables



7700-14541-series

Features

- High flex industrial Ethernet shielded Cat5e cables
- Resistant to welding sparks
- Flame retardant, chemical resistant
- TPE (thermoplastic elastomer) jacket for typical industrial applications
- HDPE (High Density Polyethylene) wire insulation for excellent insulation properties and abrasion resistance

Ethernet Shielded M12 D-coded to Pigtail Cables							
Part Number	Price	Number of Wires	Connector	Cable Jacket/ Wire Insulation Material	Jacket Color	Length	Drawing Link
						m [ft]	
7700-14541-S4U0060	\$18.00	4	Axial male to pigtail	Thermoplastic Elastomer (TPE) / High Density Polyethylene (HDPE)	Teal	0.6 [1.9]	PDF
7700-14541-S4U0100	\$19.00					1.0 [3.2]	PDF
7700-14541-S4U0300	\$25.50					3.0 [9.8]	PDF
7700-14541-S4U0500	\$31.00					5.0 [16.4]	PDF
7700-14541-S4U0750	\$39.00					7.5 [24.6]	PDF
7700-14541-S4U1000	\$46.50					10 [32.8]	PDF
7700-14541-S4U1500	\$65.00					15 [49.2]	PDF

Ethernet Shielded M12 D-coded to Pigtail Cable Specifications	
Model	14541
Type	4-Wire, 5-Pole
Max Voltage	60VDC
Max Voltage - UL Rating	30VDC
Max Current Per Contact	1.5 A
Protection Degree	IP65 / IP66K / IP67
Cable Jacket/Wire Insulation Material	Thermoplastic Elastomer (TPE) / High Density Polyethylene (HDPE)
Contacts Material	Copper Alloy
Conductors Cross Section	0.25 mm ² [24AWG]
Tightening Torque	≤ 0.6 N·m [≤ 0.44 ft-lb]
Ø Outer Cable	~ 6.6 mm [0.260 in]
Min Bend Radius	Stationary use: 5 x cable diameter; Flexible use: 10 x cable diameter
Cable Temperature Range	-40 to 80°C [-40 to 176°F]
Channel Transmission Length	max 70m
Data Transmission Standard	Cat5e, (ISO/IEC 11801), (Class D - 100 MBit/s)
Approvals*	cULus

*To obtain the most current agency approval information, see the Agency Compliance & Certifications Checklist section on the specific part number's web page.



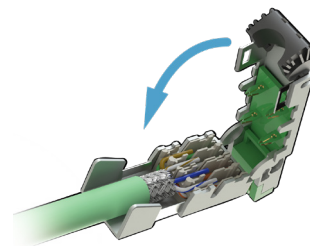
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Field Wireable Connectors - Data

Shielded RJ45 IDC Field Wireable Connectors

Features

- Insulation displacement connector (IDC)
- Cat5, Cat5e, and Cat6 models available
- Available in axial, 45°, and 90° outlets



7000-74001-0000000



7000-74031-0000000



7000-74075-0000000



7000-74085-0000000

Shielded RJ45 IDC Field Wireable Connectors

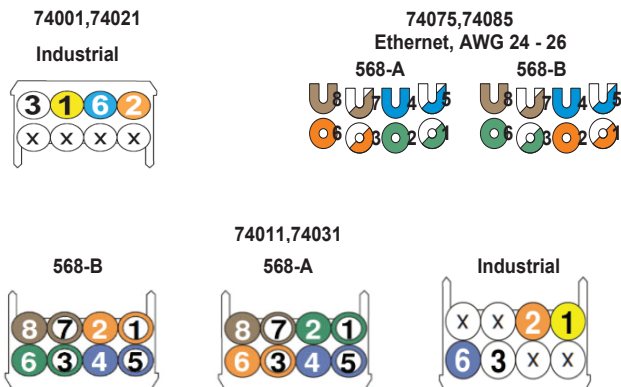
Part Number	Price	Wire Size	Number of Wires	Connector Type	Connection	Housing Material	Drawing Link
7000-74001-0000000	\$20.00	26 to 22 AWG	4	RJ45 axial male	Cat5	Polyvinyl chloride (PVC)	PDF
7000-74011-0000000	\$23.00		8		Cat6		PDF
7000-74021-0000000	\$22.00		4	RJ45 male 45-degree	Cat5	Polyethylene (PE)	PDF
7000-74031-0000000	\$25.00		8		Cat6		PDF
7000-74075-0000000	\$24.50	26 to 24 AWG	8	RJ45 axial male	Cat5e	Die-cast zinc	PDF
7000-74085-0000000	\$26.50			RJ45 90-degree male	Cat5e		PDF

Shielded RJ45 IDC Field Wireable Connectors Specifications

Model	74001, 74021	74011, 74031	74075, 74085
Type	RJ45: 4-Wire, 4-Pin	RJ45: 8-Wire, 8-Pin	RJ45: 8-Wire, 8-Pin
Maximum Voltage	60VDC		50V
Maximum Current per Contact	1.76 A		1.75 A
Transmission Type	Cat5	Cat6	Cat5e
Transfer Rate	10/100 Mbps	10 Gbit/s	1 Gbit/s
Bandwidth	100 MHz	250 MHz	100 MHz
Temperature Range	-40 to 70°C [-40 to 158°F]		
Protection Degree	IP20		
Wire Ø	max 1.6 mm		
Outside Cable Ø	5 to 9mm (74001, 74011), 5 to 8mm (74021, 74031)		5 to 9 mm
Conductor Cross Section	0.14 to 0.34 mm ² [26 to 22 AWG]		0.14 to 0.25 mm ² [26 to 24 AWG]
Housing Material	Polyvinyl chloride(PVC) / Polyethylene (PE)		Zinc die casting
Contact Material	—		Gold-plated
Approvals*	cURus		cULus

*To obtain the most current agency approval information, see the Agency Compliance & Certifications Checklist section on the specific part number's web page.

Pin Assignments



Field Wireable Connectors - Data

Assembly Instructions

Part Numbers: **7000-74001-0000000, 7000-74011-0000000, 7000-74021-0000000, 7000-74031-0000000**

1 Before stripping outside jacket, install black plastic shroud and retaining nut on cable. Leave 14mm of twisted pairs and 10mm section of braided shield.

2 Untwist pairs and smooth to prepare for insertion into wire manager.

3a Four-pole Sort wires by color-code and insert into wire manager.

3b Eight-pole Sort wires by color-code and insert into wire manager.

4 Eight-pole only Trim excess wires from the shorter tier of wire manager.

5 Rotate the conductor body down to pierce the insulation with metal tines. Snap in bottom section of shield.

6 Slide black plastic shroud over connector until click is heard. Secure cable with wire gripping nut.

Part Numbers: **7000-74075-0000000, 7000-74085-0000000**

1 Strip outside insulation. Leave 30mm of twisted pairs and 7- 8mm section of braided shield.

2 Untwist pairs and smooth to prepare for insertion into wire manager.

3 Sort wires by color-code and insert into wire manager.

4 Trim excess wires from both upper and lower tiers of wire manager.

5 Rotate conductor body down and seat firmly to pierce insulation with metal tines.

6 Rotate black plastic cable-retainer down.

NOTE: After cable-retainer is secured, connector assembly may not be reopened.